Table A-30. Total (Federal plus company and other) funds for industrial R&D performance in the U.S., by state in selected years: 1983-2001

State	1983	1985	1987	1989 [1]	1991 [1]	1993 [2]	1995 [2]	1997 [2]	1998 [2,3,4]	1999 [2,3,4]	2000 [2,3,4]	2001 [2,4,5]
	[In millions of dollars]											
United States, total	65,268	84,239	92,155	102,055	116,952	117,400	132,103	157,539	169,180	182,711	199,539	198,505
Alabama	187	(S)	1,523	430	596	557 (S)	686	589 (S)	845	823	821 (S)	905
Alaska	(T)	(D)	10	9	21	14	30	24 (S)	37 (E)	82 (E)	48 (E)	68
Arizona	(T)	1,079	809	921	1,080	1,039	1,356 (S)	1,854	1,801	2,109 (S)	2,182 (S)	2,707
Arkansas	(T)	(D)	129	51	(S)	179	181	118	213 (E)	326	400	254 (E)
California	(T)	(S)	18,636	23,781	(S)	21,975	28,710	34,011	32,856	36,991	43,459	41,745
Colorado	741	988	1,207	1,167	(S)	1,966	1,865	2,248	3,180	3,266	3,143	3,117
Connecticut	1,682	2,129	2,121	2,421	1,756	2,228	3,906	3,014	3,346	4,145 (S)	4,132 (S)	4,686
Delaware	(T)	(D)	(D)	(D)	(D)	913 (S)	1,077 (S)	1,009 (S)	1,356 (S)	1,295 (S)	1,468 (S)	1,232
District of Columbia	(T)	(D)	(D)	(D)	46	515 (S)	672 (S)	(D)	598 (S)	268 (E)	196 (E)	242
Florida	(T)	1,973	2,041	2,352	(S)	2,386	4,101	3,442	3,265	3,482	3,773 (S)	3,755
Georgia	348	(D)	958	722	993	792	1,175	1,273	1,617	1,904	2,159 (S)	1,912
Hawaii	(T)	13	70	9	13	255	14	87	55 (E)	68 (E)	93 (E)	93
Idaho	(T)	451	467	(D)	(S)	686	827	1,181 (S)	1,103 (S)	1,239	1,363	884
Illinois	2,291	(D)	4,099	4,068	5,750	5,023	5,776 (S)	6,248	7,318	8,102	8,393 (S)	8,232
Indiana	(T)	(D)	1,860	1,823	2,274	2,141	2,721 (S)	2,677	2,922	2,863 (S)	2,888 (S)	3,583
Iowa	287	(D)	328	365	527	505	998	578	750	730	762	817
Kansas	293	(D)	1,128	406	(S)	280 (S)	569	1,136 (S)	1,384 (S)	1,448 (S)	1,327 (S)	1,299 (S)
Kentucky	191	(D)	238	227	176	282	452	359	606	777	762	636
Louisiana	257	(D)	128	169	(S)	106	61	172	377 (E)	516 (E)	364 (E)	316 (E)
Maine	(T)	(D)	39	33	(S)	(D)	286	83	137	208	255	249
Maryland	(T)	1,548	1,292	1,093	1,376	1,296	1,075	1,425	1,905	2,020	2,213	3,682
Massachusetts	2,466	4,495	5,255	5,851	(S)	5,960	7,416	8,300	10,367	9,626	10,595	11,378
Michigan	5,716	6,436	7,095	8,506	9,283	18,845	12,388	13,009	12,554	16,877	17,489 (S)	14,283
Minnesota	1,814	(D)	2,145	2,075	2,070	2,341	2,636 (S)	3,116	3,367	3,695	3,971	4,355
Mississippi	(T)	62	42	56	(S)	51	66	73	183 (E)	224 (E)	242 (E)	219 (E)
Missouri	(T)	(D)	1,823	2,391	(S)	1,339 (S)	2,028 (S)	1,290 (S)	1,505	1,664	1,978	1,792
Montana	(T)	(D)	7	(D)	(S)	(D)	17	92	63	92 (E)	78 (E)	70 (E)
Nebraska	26	(D)	59	64	67	93	150	71	195 (E)	217 (E)	335 (E)	306
Nevada	(T)	(S)	55	29	95	65	322	380	476	490	433	290
New Hampshire	(T)	(D)	90	(D)	(D)	247	472	652	1,138	1,157	722	1,339

See explanatory information and SOURCE at end of table.

Table A-30. Total (Federal plus company and other) funds for industrial R&D performance in the U.S., by state in selected years: 1983-2001

State	1983	1985	1987	1989 [1]	1991 [1]	1993 [2]	1995 [2]	1997 [2]	1998 [2,3,4]	1999 [2,3,4]	2000 [2,3,4]	2001 [2,4,5]
	[In millions of dollars]											
New Jersey	4,364	5,975	5,876	6,410	8,933	8,009	8,200	11,069	11,107	10,145	10,580	10,164
New Mexico	(T)	(D)	950	1,039	1,217	(D)	1,461	1,310 (S)	1,450 (S)	1,352 (S)	1,203 (S)	231
New York	5,951	7,561	6,276	8,107	9,457	8,597	8,651	9,939 (S)	10,283	12,260	11,622	10,884
North Carolina	786	(D)	1,666	1,311	1,470	1,886	2,226	3,590	3,483	3,632	4,328	4,138
North Dakota	(T)	10	57	(S)	(S)	(D)	12	33	46 (E)	95 (E)	83 (E)	347
Ohio	2,282	3,067	3,415	3,964	5,406	4,494	4,001	5,608	5,742	6,531	6,245	6,694
Oklahoma	407	(D)	367	333	448	299	288	428	369	562 (E)	463	543 (E)
Oregon	(T)	(D)	281	357	(S)	455	741	1,102	1,345	1,408	1,533	2,677
Pennsylvania	3,963	3,844	4,430	4,653	(S)	4,652	5,331	6,609 (S)	7,393	7,474	8,473	8,967
Rhode Island	171	213	224	140	174	154	520	704 (S)	1,332 (S)	1,317 (S)	1,167 (S)	1,134 (S)
South Carolina	(T)	(D)	500	388	479	461	739	783 (S)	996	922	1,059	921
South Dakota	(T)	(S)	4	4	6	(D)	19	26	40 (E)	57 (E)	89 (E)	87 (E)
Tennessee	(T)	(D)	621	934	843	788	1,003	1,089	2,440	2,205	1,644	1,503
Texas	(T)	3,762	4,077	5,051	5,439	4,562	6,211 (S)	7,265	8,984	8,661	10,048	9,839
Utah	242	(D)	774	389	407	279	803	1,027	1,119	1,028	1,063	1,173
Vermont	(T)	(D)	236	(D)	(D)	(D)	248	246	114	346	389	339
Virginia	941	862	1,284	1,131	1,275	1,046	1,577	1,767	2,540	2,662	2,683	2,957
Washington	(T)	2,351	2,939	2,728	3,677	4,575 (S)	4,294 (S)	6,610 (S)	7,072 (S)	7,093 (S)	8,235 (S)	8,933 (S)
West Virginia	(T)	(D)	83	(D)	(D)	100 (S)	243	(D)	335	351	329	211
Wisconsin	(T)	728	1,165	1,035	1,304	1,296	1,706	1,707	1,929	2,194	2,415	2,469 (S)
Wyoming	2	3	4	(D)	2	15	25	28	20 (E)	65 (E)	37 (E)	28 (E)
Undistributed funds [6]	3,931	1,495	2,281	2,945	772	683	1,773 (S)	7,211 (S)	5,521 (S)	5,647 (S)	9,804 (S)	9,819 (S)

[1] As a result of a new sample design, statistics for 1989-91 were revised after they were originally published and are not directly comparable with statistics for earlier years. For more information, see the technical notes in Survey of Industrial Research and Development Methodology: 2001 at http://www.nsf.gov/sbe/srs/sird/start.htm

[2] As a result of annual sampling, implemented to produce statistics that better reflect R&D performance among firms in nonmanufacturing industries and small firms in all industries, statistics for 1992 and later years are not directly comparable with statistics for earlier years. For more information, see the technical notes in Survey of Industrial Research and Development Methodology: 2001 at http://www.nsf.gov/sbe/srs/sird/start.htm.

[3] Some statistics for 1998, 1999, and 2000 have been revised since originally published. The new methodology described in footnote 4 was used to re-estimate the 1998, 1999, and 2000 statistics as well as to produce the 2001 statistics.

[4] The methodology to produce statistics by state was modified from previous years to address the recurring problem of large year-to-year variation in many state estimates. This variability was caused by many factors including the potential inefficiency of the sample at state levels, the rarity of R&D expenditures, and the large weights often associated with companies that report R&D in the survey for the first time. Under the new methodology, a portion of the amount of R&D reported by some companies not selected for the sample with certainty is allocated among all the states in which there was industrial activity. For a more detailed explanation of the new methodology and the definition of a "certainty" company, see the technical notes in Survey of Industrial Research and Development Methodology: 2001 at http://www.nsf.gov/sbe/srs/sird/start.htm. Note that there was no change to the methodology for estimating the number of R&D performers in each state. This estimate continued to be calculated by summing the weights of the companies that actually reported R&D activity in a given state.

[5] Beginning with 2001, statistics for total and Federally funded industrial R&D exclude data for Federally Funded Research and Development Centers (FFRDCs)

[6] Includes data reported on Form RD-1 that were not allocated to a specific state. Data reported on form RD-1A were allocated to the state in the address on the company's survey form which is usually the company's headquarters.

KEY: (D) = Data have been withheld to avoid disclosing information about individual companies.
(S) = Indicates imputation of more than 50 percent. For years prior to 1993, data have been withheld.
(T) = Data are not separately available but included in total.
(E) = Imputation or more than 50 percent due to raking of state data.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Industrial Research and Development: 2001